

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2003/001989

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B63C 9/26, A62B 1/16

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B63C, A62B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4713033 A (CAMERON), 15 December 1987 (15.12.1987)	1-10
	--	
A	US 6257942 B1 (GROOVER), 10 July 2001 (10.07.2001)	1-10
	--	
A	DE 2506241 A1 (LINDQVIST, LARS-HAAKAN), 26 August 1976 (26.08.1976)	1-10
	--	
A	SE 354454 B (L-H LINDQVIST), 12 March 1973 (12.03.1973)	1-10
	--	
	-----	

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier application or patent but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

\*&amp;\* document member of the same patent family

Date of the actual completion of the international search

29 March 2004

Date of mailing of the international search report

31-03-2004

Name and mailing address of the ISA/

Swedish Patent Office

Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Authorized officer

Christer Jönsson/EK

Telephone No. +46 8 782 25 00

Form PCT/ISA/210 (second sheet) (January 2004)

BEST AVAILABLE COPY

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

27/02/2004

International application No.

PCT/SE 2003/001989

US	4713033	A	15/12/1987	NONE		
US	6257942	B1	10/07/2001	NONE		
DE	2506241	A1	26/08/1976	NONE		
SE	354454	B	12/03/1973	GB	1283485 A	26/07/1972
				US	3676882 A	18/07/1972